WHAT IS CLAIMED IS:

1	An implantable port comprising
2	a base having a passage for receiving an access tube;
3	a valve assembly in the base, said valve assembly having a bore which
4	receives the access tube and wherein the valve assembly opens in response to movement
5	of the access tube;
6	a valve lock having a latch which shifts position to lock the valve
7	assembly open in response to movement of the access tube.
1	2. An implantable port as in claim 1, wherein the valve assembly
2	opens in response to motion of a needle.
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1	3. An implantable port as in claim 1, wherein the latch comprises at
2	least one space-filling element which is displaced from the passage into a receptacle
3	adjacent to the passage as the access tube is inserted into the passage, wherein space-
4	filling element remains in the receptacle to lock the valve open so long as the access tube
5	remains in the bore.
1	4. An implantable port as in claim 3, wherein the valve assembly
2	comprises a plunger and wherein a pair of space-filling elements is displaced both
3	downwardly, to lower the plunger to open the valve, and outwardly into the receptacle, to
4	lock the plunger open.
1	An implantable port as in claim 3, wherein the valve lock
2	comprises a pair of balls which are displaced laterally.
1	6. An implantable port as in claim 1, wherein the valve is selected
2	from the group of pinch valves, sliding valves, slit valves, duckbill valves, and leaflet
3	valves.
1	7. An implantable port as in claim 1, wherein the bore comprises a
	tapered bore which seals against the access tube as said tube is inserted therein.
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1	8. A method for percutaneously accessing a body lumen, said method
2	comprising:

3	maintaining a conduit between an implanted access port and the body
4	lumen, said conduit being opened and closed by a valve within the port; and
5	percutaneously inserting an access tube into an implanted access port,
6	wherein inserting the access tube opens the valve and displaces at least one space-filling
7	element into a receptacle to lock the valve open until the access tube is removed.
1	9. A method as in claim 8, wherein the space filling element is a ball.
1	10. A method as in claim 8, wherein inserting the access tube laterally
2	displaces at least two opposed balls into the receptacle so that the tube holds the balls in
3	place until the tube is removed.
1	11. A method as in claim 8, wherein the bore comprises a tapered bore
2	which seals against the access tube as said tube is inserted therein.
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